



**Academic Systems Algebra  
Personal Academic Notebook  
Errata -- August 2007**

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# PERSONAL ACADEMIC NOTEBOOK – UPDATE

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This update covers Academic Systems Algebra Personal Academic Notebooks (PAN) for Elementary Algebra and Intermediate Algebra.

The following are instances of corrected text, questions, figures, and answers and/or solutions. (Corrections may also apply to the Instructor's Answers and Solution book.)

## Elementary Algebra

### Topic 1, Cumulative Activities

Page 122, Problem 11; Answer page 711

The answer to problem 11 (page 122) on page 711 is incorrect. The correct answer should state: **-172**

### Topic 2, Lesson 2.3

Page 180, Homework problem 3

The solution is incorrect as stated. The question asks for three consecutive odd integers that add to 81. The solution provided is 26, 27, 28, but the correct answer is **25, 27, 29**.

### Topic 2, Lesson 2.3

Page 182, Apply problem 8

The problem is incorrect as stated; it should state:

The difference between two numbers is 80. **Four times the smaller number plus three times the larger number is -344.** What are the numbers?

### Topic 5, Lesson 5.2

Page 334

In the last line of Step 3, the equation omits information. The line should state:  
"This is the second equation:  $0.14x + 0.18y = 706$ "

### Topic 6, Lesson 6.2

Page 399, Practice Problem 18

The problem is incorrect as stated. The correct problem should state:

$$(10x^4y^3 - 9x^2y^3 + 6xy^2 - x) + (-8x^4y^3 + 14x^2y^3 + 3xy^2 + x)$$

## Topic 6, Lesson 6.3

Page 406

The marginal comment for example 6.3.4 should state:

“Note that  $(3w - 7y)^2 \neq (3w)^2 - (7y)^2$   
Don't forget the middle term,  $- 42wy$ ”

## Topic 8, Lesson 8.1

Page 499, Homework problem 11

The answer in the back of the book is incorrect as stated; the problem simplifies to **x**.

## Topic 9, Lesson 9.2

Page 612

In the box labeled “Division Property of Radicals,” the index **n** is missing from the first radical.

The example should state: **Algebra**  $\sqrt[n]{\frac{a}{b}} = \frac{\sqrt[n]{a}}{\sqrt[n]{b}}$

## Topic 9, Lesson 9.2

Page 617

All radicals in the last equation should have an index of **4**; currently, only 3 of the 9 radicals have indexes.

## Topic 10, lesson 10.1

Page 648

In Step 3, the equation should state:  $t - 5 = 0$  or  $t + 1 = 0$

## Intermediate Algebra

### Table of Contents

Page iii

Lesson EII.E is listed as “Arithmetic of Numbers.” It should instead be titled “**Graphing Lines.**”

### Lesson EII.B

Page 48, Polynomials, Practice Problem 52; Answer page 914

The answer should state:  $(2x-5y^2)(2x+5y^2)(4x^2+25y^4)$

### Topic 5, Lesson 5.2

Page 268

In the last line of Step 3, the equation omits information. The line should state:  
“This is the second equation:  $0.14x + 0.18y = 706$ ”

### Topic 8, Lesson 8.1

Page 433, Homework Problem 11

The answer in the back of the book is incorrect as stated; the problem simplifies to **x**.

### Topic 9, Lesson 9.2

Page 546

In the box labeled “Division Property of Radicals,” the index **n** is missing from the first radical.

The example should state: **Algebra**  $\sqrt[n]{\frac{a}{b}} = \frac{\sqrt[n]{a}}{\sqrt[n]{b}}$

### Topic 9, Lesson 9.2

Page 551

All radicals in the last equation should have an index of **4**; currently, only 3 of the 9 radicals have indexes.

## Topic 9, Lesson 9.2

Page 574, Apply Problem 27; Answer page 941

No answer appears in the answer key of the Intermediate Algebra PAN. The answer should state:

$$\frac{y^{\frac{12}{8}}}{x^9}$$

## Topic 10, Lesson 10.2

Page 582

In Step 3, the equation should state:  $t - 5 = 0$  or  $t + 1 = 0$

## Topic 10, Lesson 10.2

Page 605, right margin.

The margin note is incorrect as stated. The correct note should appear as follows:

$$\text{If } a > 0, \text{ then } \sqrt{4a^2} = 2a$$

$$\text{If } a < 0, \text{ then } \sqrt{4a^2} = -2a$$

$$\text{So, } \sqrt{4a^2} = \pm 2a$$

## Topic 10, Lesson 10.2

Page 607

The top margin note is illegible and should appear as follows:

*Here's another way to simplify.*

$$x = \frac{6 \pm 2\sqrt{59}}{-10}$$

*Factor out 2.*

$$x = \frac{2(3 \pm \sqrt{59})}{2(-5)}$$

*Reduce.*

$$x = \frac{3 \pm \sqrt{59}}{-5}$$

*Remove the negative in the denominator.*

$$x = \frac{3 \pm \sqrt{59}}{-5} \cdot \frac{-1}{-1}$$

*Simplify.*

$$x = \frac{-3 \pm \sqrt{59}}{5}$$

## Topic 11, Lesson 11.1

Page 681, Apply Problem 23; Answer page 945

The answer should state: Domain: the interval  $[0, \infty)$ ; Range: the interval  $[2, \infty)$

## Topic 11, Lesson 11.1

Page 683, Apply Problem 49; Answer page 945

The answer should state: Doman: the interval  $(\infty, \infty)$ ; Range: the interval  $(-\infty, 0]$

## Topic 13, Lesson 13.1

Page 841, Apply Problem 13

Problem 13 is incorrect as stated. The correct problem should state:

Solve for x:  $\sqrt{x^2 + 16} - x = 2$

## Answer Section

Page 948, Apply Section 11.2, Practice Problems

There are two answers labeled 55. The first answer should be number 53; the second should remain number 55.